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JAS-ANZ
ISO 9001:2000 CERTIFIED

Job No.: CQCE/BBMP/KB/92/2020-2021 Date:09.09.2020

TEST REPORT ON CEMENT

Client : **Executive Engineer, Yelahanka Projects** Division, Bangalore.
Agency : **Sri. K Boopalan(M/s. BVR Tech & Engineers),** Contractor, Bangalore.
Name of Work Construction of Indoor Stadium at Telecom Layout in ward no.5 surrounding area Byatarayanapura Sub division, Yelahanka Zone, Bengaluru-92
Consultant :Infra Technocrafts Consultants
Sample : :Cement (Birla Super 53 grade OPC)
Sample Supplied by: :AGENCY
Date of Manufacture: :August-2020
Date of Testing 07.09.2020 to 09.09.2020

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	a) Initial Setting Time	IS-4031 (Part - 5):1988(RA 2014)	145 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part - 5):1988(RA 2014)	355 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) :1988 (RA 2014) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29.50%	-

Note:

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For CIVIL QUALITY CONSULTANTS & ENGINEERS

Office & Laboratory : # 133, Bhuvaneshwarinagar, Dodda Basti Main Road, Bangalore - 560 056.
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ob No.: CQCE/BBMP/KB/92/2020-2021 Date 07.09.2020

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Executive Engineer, Yelahanka Projects** Division, Bangalore.
Agency : **Sri. K Boopalan(M/s. BVR Tech & Engineers),** Contractor, Bangalore.
Name of Work Construction of Indoor Stadium at Telecom Layout in ward no.5 surrounding area Byatarayanapura Sub division, Yelahanka Zone, Bengaluru-92
Consultant :Infra Technocra ts Consultants
Date of Testing 07.09.2020
IS Code :IS 383:2016
:IS 2386 (Part 1):1963(RA 2011)
Material : Sand Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016 Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	78	7.80	7.80	92.2	90-100
2.36	115	11.50	19.30	80.7	75-100
1.18	185	18.50	37.80	62.2	55-90
600 Micron	245	24.50	62.30	37.7	35-59
300 Micron	175	17.50	79.80	20.2	8-30
150 Micron	154	15.40	95.20	4.8	0-10

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(Project)

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Job No.: CQCE/BBMP/KB/92/2020-2021 Date 07.09.2020

TEST REPORT ON COARSE AGGREGATES

Client : **Executive Engineer, Yelahanka Projects** Division, Bangalore.
Agency : **Sri. K Boopalan(M/s. BVR Tech & Engineers),** Contractor, Bangalore.
Name of Work Construction of Indoor Stadium at Telecom Layout in ward no.5 surrounding area Byatarayanapura Sub division, Yelahanka Zone, Bengaluru-92
Consultant :Infra Technocrafts Consultants
Date of Testing 07.09.2020
IS Code :IS 383:2016
:IS 2386 (Part 1):1963(RA 2011)
Material : 40mm Aggregates

A.E.E. (Project)

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
80	0	0	0	100	100
40	201	1.34	1.34	98.66	95-100
20	8545	56.97	58.31	41.69	30-70
10	3169	21.13	79.43	20.57	10-35
4.75	2652	17.68	97.11	2.89	0-5

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b No.: CQCE/BBMP/KB/92/2020-2021 Date 07.09.2020

TEST REPORT ON COARSE AGGREGATES

Client	: **Executive Engineer, Yelahanka Projects** Division, Bangalore.
Agency	: **Sri. K Boopalan(M/s. BVR Tech & Engineers),** Contractor, Bangalore.
Name of Work	Construction of Indoor Stadium at Telecom Layout in ward no.5 surrounding area Byatarayanapura Sub division, Yelahanka Zone, Bengaluru-92
Consultant	:Infra Technocrafts Consultants
Date of Testing	07.09.2020
IS Code	:IS 383:2016
	:IS 2386 (Part 1):1963(RA 2011)
Material	: 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
40	0	0	0	100	100
20	228	4.6	4.6	95.4	95-100
10	2815	56.3	60.9	39.1	25-55
4.75	1845	36.9	97.8	2.2	0-10

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Job No.: CQCE/BBMP/KB/92/2020-2021 Date: 16.09.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer, Yelahanka Projects** Division, Bangalore.
Agency : **Sri. K Boopalan(M/s. BVR Tech & Engineers),** Contractor, Bangalore.
Name of Work Construction of Indoor Stadium at Telecom Layout in ward no.5 surrounding area Byatarayanapura Sub division, Yelahanka Zone, Bengaluru-92
Consultant :Infra Technocrafts Consultants
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{25}
Compressive Strength as on : 7th day

Sl.No	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	09.09.2020	16.09.2020	8.065	463.5	20.60
2	09.09.2020	16.09.2020	8.098	485.5	21.58
3	09.09.2020	16.09.2020	8.158	472.2	20.99

A.E.E. (Project)

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Job No.: CQCE/BBMP/KB/92/2020-2021 Date: 07.10.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Executive Engineer, Yelahanka Projects** Division, Bangalore.
Agency	**: Sri. K Boopalan(M/s. BVR Tech & Engineers),** Contractor, Bangalore.
Name of Work	Construction of Indoor Stadium at Telecom Layout in ward no.5 surrounding area Byatarayanapura Sub division, Yelahanka Zone, Bengaluru-92
Consultant	:Infra Technocrafts Consultants
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{25}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	09.09.2020	07.10.2020	8.025	723.6	32.16
2	09.09.2020	07.10.2020	8.154	728.9	32.40
3	09.09.2020	07.10.2020	8.096	705.9	31.37

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No.: CQCE/BBMP/KB/92/2020-2021 Date: 25.09.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

lient	: **Executive Engineer, Yelahanka Projects** Division, Bangalore.
gency	: **Sri. K Boopalan(M/s. BVR Tech & Engineers),** Contractor, Bangalore.
Name of Work	Construction of Indoor Stadium at Telecom Layout in ward no.5 surrounding area Byatarayanapura Sub division, Yelahanka Zone, Bengaluru-92
Consultant	:Infra Technocrafts Consultants
Location	:Footing
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{25}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.09.2020	25.09.2020	8.025	485.6	21.58
2	18.09.2020	25.09.2020	8.193	495.6	22.03
3	18.09.2020	25.09.2020	8.193	473.6	21.05

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Job No.: CQCE/BBMP/KB/92/2020-2021 Date: 01.10.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer, Yelahanka Projects** Division, Bangalore.
Agency	: **Sri. K Boopalan(M/s. BVR Tech & Engineers),** Contractor, Bangalore.
Name of Work	Construction of Indoor Stadium at Telecom Layout in ward no.5 surrounding area Byatarayanapura Sub division, Yelahanka Zone, Bengaluru-92
Consultant	:Infra Technocrafts Consultants
Location	:Column upto Plint & Plinth beam Concrete
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{25}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.09.2020	01.10.2020	8.099	495.6	22.03
2	24.09.2020	01.10.2020	8.157	473.5	21.04
3	24.09.2020	01.10.2020	8.031	502.3	22.32

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Job No.: CQCE/BBMP/KB/92/2020-2021 Date: 07.10.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer, Yelahanka Projects** Division, Bangalore.
Agency	: **Sri. K Boopalan(M/s. BVR Tech & Engineers),** Contractor, Bangalore.
Name of Work	Construction of Indoor Stadium at Telecom Layout in ward no.5 surrounding area Byatarayanapura Sub division, Yelahanka Zone, Bengaluru-92
Consultant	:Infra Technocrafts Consultants
Location	:Column Concrete
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{25}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.09.2020	07.10.2020	8.135	489.6	21.76
2	30.09.2020	07.10.2020	8.098	467.8	20.79
3	30.09.2020	07.10.2020	8.074	482.3	21.44

A.E.E. (Project)

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Job No.: CQCE/BBMP/KB/92/2020-2021 Date: 16.10.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer, Yelahanka Projects** Division, Bangalore.
Agency	: **Sri. K Boopalan(M/s. BVR Tech & Engineers),** Contractor, Bangalore.
Name of Work	Construction of Indoor Stadium at Telecom Layout in ward no.5 surrounding area Byatarayanapura Sub division, Yelahanka Zone, Bengaluru-92
Consultant	:Infra Technocrafts Consultants
Location	:Ground floor slab Concrete
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{25}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	09.10.2020	16.10.2020	8.056	502.3	22.32
2	09.10.2020	16.10.2020	8.098	496.6	22.07
3	09.10.2020	16.10.2020	8.074	483.9	21.51

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Job No.: CQCE/BBMP/KB/92/2020-2021 Date: 03.12.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer, Yelahanka Projects** Division, Bangalore.
Agency	: **Sri. K Boopalan(M/s. BVR Tech & Engineers),** Contractor, Bangalore.
Name of Work	Construction of Indoor Stadium at Telecom Layout in ward no.5 surrounding area Byatarayanapura Sub division, Yelahanka Zone, Bengaluru-92
Consultant	:Infra Technocrafts Consultants
Location	:Head room floor Column concrete
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{25}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.11.2020	03.12.2020	8.025	486.3	21.61
2	26.11.2020	03.12.2020	8.198	469.3	20.86
3	26.11.2020	03.12.2020	8.021	480.1	21.34

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Job No: CQCE/BBMP/KB/92/2020-2021 Date: 30.10.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: Executive Engineer, Yelahanka Projects Division, Bangalore
Agency	: Sri. K Boopalan(M/s. BVR Tech & Engineers), Contractor, Bangalore.
Name of Work	Construction of Indoor Stadium at Telecom Layout in ward no.5 surrounding area Byatarayanapura Sub division, Yelahanka Zone, Bengaluru-92
Consultant	:Infra Technocrafts Consultants
Location	:First floor Column concrete
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M25
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.10.2020	30.10.2020	8.002	469.3	20.86
2	23.10.2020	30.10.2020	8.165	482.5	21.44
3	23.10.2020	30.10.2020	8.074	479.2	21.30

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Job No.: CQCE/BBMP/KB/92/2020-2021 Date: 11.11.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer, Yelahanka Projects** Division, Bangalore.
Agency	: **Sri. K Boopalan(M/s. BVR Tech & Engineers),** Contractor, Bangalore.
Name of Work	Construction of Indoor Stadium at Telecom Layout in ward no.5 surrounding area Byatarayanapura Sub division, Yelahanka Zone, Bengaluru-92
Consultant	:Infra Technocrafts Consultants
Location	:First floor roof concrete
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{25}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	04.11.2020	11.11.2020	8.196	485.5	21.58
2	04.11.2020	11.11.2020	8.035	473.5	21.04
3	04.11.2020	11.11.2020	8.007	469.5	20.87

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Job No.: CQCE/BBMP/KB/92/2020-2021 Date: 11.12.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer, Yelahanka Projects** Division, Bangalore.
Agency	: **Sri. K Boopalan(M/s. BVR Tech & Engineers),** Contractor, Bangalore.
Name of Work	Construction of Indoor Stadium at Telecom Layout in ward no.5 surrounding area Byatarayanapura Sub division, Yelahanka Zone, Bengaluru-92
Consultant	:Infra Technocrafts Consultants
Location	:Head room floor roof Concrete
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{25}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	04.12.2020	11.12.2020	8.097	472.5	21.00
2	04.12.2020	11.12.2020	8.025	480.9	21.37
3	04.12.2020	11.12.2020	8.136	496.3	22.06

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Authorised Signatory

Office & Laboratory : # 133, Bhuvaneshwarinagar, Dodda Basti Main Road, Bangalore - 560 056.
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ISO 9001:2000 CERTIFIED

Job No.: CQCE/BBMP/KB/92/2020-2021 Date: 16.10.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer, Yelahanka Projects** Division, Bangalore.
Agency	: **Sri. K Boopalan(M/s. BVR Tech & Engineers),** Contractor, Bangalore.
Name of Work	Construction of Indoor Stadium at Telecom Layout in ward no.5 surrounding area Byatarayanapura Sub division, Yelahanka Zone, Bengaluru-92
Consultant	:Infra Technocrafts Consultants
Location	:Footing
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{25}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.09.2020	16.10.2020	8.165	603.5	26.82
2	18.09.2020	16.10.2020	8.098	645.3	28.68
3	18.09.2020	16.10.2020	8.032	652.5	29.00

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Ref No: CQCE/BBMP/KB/92/2020-2021 Date: 22.10.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer, Yelahanka Projects** Division, Bangalore.
Agency	: **Sri. K Boopalan(M/s. BVR Tech & Engineers),** Contractor, Bangalore.
Name of Work	Construction of Indoor Stadium at Telecom Layout in ward no.5 surrounding area Byatarayanapura Sub division, Yelahanka Zone, Bengaluru-92
Consultant	:Infra Technocrafts Consultants
Location	:Column upto Plint & Plinth beam Concrete
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{25}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.09.2020	22.10.2020	8.098	652.3	28.99
2	24.09.2020	22.10.2020	8.051	639.6	28.43
3	24.09.2020	22.10.2020	8.178	640.1	28.45

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Job No.: CQCE/BBMP/KB/92/2020-2021 Date: 28.10.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer, Yelahanka Projects** Division, Bangalore.
Agency : **Sri. K Boopalan(M/s. BVR Tech & Engineers),** Contractor, Bangalore.
Name of Work : Construction of Indoor Stadium at Telecom Layout in ward no.5 surrounding area Byatarayanapura Sub division, Yelahanka Zone, Bengaluru-92
Consultant :Infra Technocrafts Consultants
Location :Column Concrete
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{25}
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.09.2020	28.10.2020	8.048	596.6	26.52
2	30.09.2020	28.10.2020	8.025	635.5	28.24
3	30.09.2020	28.10.2020	8.032	628.1	27.92

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Job No: CQCE/BBMP/KB/92/2020-2021 Date: 06.11.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer, Yelahanka Projects** Division, Bangalore.
Agency	: **Sri. K Boopalan(M/s. BVR Tech & Engineers),** Contractor, Bangalore.
Name of Work	Construction of Indoor Stadium at Telecom Layout in ward no.5 surrounding area Byatarayanapura Sub division, Yelahanka Zone, Bengaluru-92
Consultant	:Infra Technocrafts Consultants
Location	:Ground floor slab Concrete
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	:22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{25}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	09.10.2020	06.11.2020	8.065	663.5	29.49
2	09.10.2020	06.11.2020	8.154	648.5	28.82
3	09.10.2020	06.11.2020	8.078	639.0	28.40

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No: CQCE/BBMP/KB/92/2020-2021 Date: 20.11.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer, Yelahanka Projects** Division, Bangalore.
Agency	: **Sri. K Boopalan(M/s. BVR Tech & Engineers),** Contractor, Bangalore.
Name of Work	Construction of Indoor Stadium at Telecom Layout in ward no.5 surrounding area Byatarayanapura Sub division, Yelahanka Zone, Bengaluru-92
Consultant	:Infra Technocrats Consultants
Location	:First floor Column concrete
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{25}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.10.2020	20.11.2020	8.025	693.6	30.83
2	23.10.2020	20.11.2020	8.174	678.5	30.16
3	23.10.2020	20.11.2020	8.085	681.3	30.28

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Job No.: CQCE/BBMP/KB/92/2020-2021

Date: 02.12.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: Executive Engineer, Yelahanka Projects Division, Bangalore.
Agency	: Sri. K Boopalan(M/s. BVR Tech & Engineers), Contractor, Bangalore.
Name of Work	Construction of Indoor Stadium at Telecom Layout in ward no.5 surrounding area Byatarayanapura Sub division, Yelahanka Zone, Bengaluru-92
Consultant	:Infra Technocrafts Consultants
Location	:First floor roof concrete
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{25}
Compressive Strength at on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	04.11.2020	02.12.2020	8.065	679.9	30.22
2	04.11.2020	02.12.2020	8.154	682.3	30.32
3	04.11.2020	02.12.2020	8.048	678.2	30.14

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Job No.: CQCE/BBMP/KB/92/2020-2021

Date 07.10.2020

TEST REPORT OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Executive Engineer, Yelahanka Projects** Division, Bangalore.
Agency : **Sri. K Boopalan(M/s. BVR Tech & Engineers),** Contractor, Bangalore.
Name of Work Construction of Indoor Stadium at Telecom Layout in ward no.5 surrounding area Byatarayanapura Sub division, Yelahanka Zone, Bengaluru-92

Consultant :Infra Technocrafts Consultants
Steel Dia/Length: 8mm,10mm,12mm,16mm" TMT"
Reference to BIS codes: IS 1786:2008(RA 2013) High Strength Deformed Steel Bars and Wires for Concrete Reinforcement-Specification
IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature
Date of test: 07.10.2020

S.No	Brand	Nominal size (dia in mm)	Mass per meter (kg/meter)	TENSILE STRENGTH			
				0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	TS/YS ratio	Elongation, percent on gauge length
1	TMT	8	0.396	506	609	1.20	14
2	TMT	10	0.618	529	613	1.16	18
3	TMT	12	0.889	526	602	1.14	20
4	TMT	16	1.582	539	596	1.11	22

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Job No: CQCE/BBMP/KB/92/2020-2021

Date 02.11.2020

TEST REPORT OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Executive Engineer, Yelahanka Projects** Division, Bangalore.
Agency : **Sri. K Boopalan(M/s. BVR Tech & Engineers),** Contractor, Bangalore.
Name of Work Construction of Indoor Stadium at Telecom Layout in ward no.5 surrounding area Byatarayanapura Sub division, Yelahanka Zone, Bengaluru-92

Consultant :Infra Technocrafts Consultants
Steel Dia/Length: 8mm,10mm,12mm,16mm" TMT"
Reference to BIS codes: IS 1786:2008(RA 2013) High Strength Deformed Steel Bars and Wires for Concrete Reinforcement-Specification
IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature
Date of test: 02.11.2020

S.No	Brand	Nominal size (dia in mm)	Mass per meter (kg/meter)	TENSILE STRENGTH			
				0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	TS/YS ratio	Elongation, percent on gauge length
1	TMT	8	0.398	516	605	1.17	20
2	TMT	10	0.619	502	616	1.23	22
3	TMT	12	0.889	513	625	1.22	25
4	TMT	16	1.585	527	608	1.15	20

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